

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	)	Attorney Docket No.: <b>ASAIN0176</b>
	)	
Kenji YAMAZAWA et al.	)	Confirmation No. Unassigned
	)	
Serial No.: Unassigned	)	Group Art Unit: Unassigned
	)	
Filed: January 31, 2006	)	Examiner: Unassigned
	)	
For: ARTIFICIAL BONE FORMING	)	Date: January 31, 2006
METHOD BY POWDER	)	
LAMINATION METHOD	)	

**INFORMATION DISCLOSURE STATEMENT**

**MAIL STOP: PCT**

U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, this Information Disclosure Statement in connection with the above-identified application is being filed in accordance with 37 C.F.R. §1.97(b):

- ☐ within three months of the filing date of this application (not a C.P.A.);
- ☒ within three months of the date of entry of the National Stage;
- ☐ before the mailing date of a first Office Action on the merits; or
- ☐ before the mailing of a first Office Action on the merits of, after the filing of a Request for Continued Examination (RCE) under §1.114.

A copy of each non-U.S. document identified on the attached Forms PTO/SB/08A and

PTO/SB/08B is attached, however, in accordance with Official Gazette Notice dated August 5, 2003, copies of the U.S. patents and patent application publications are not attached.

U.S. Patent Documents 1-3 relate to three-dimensional printing techniques. U.S. Patent Document 4 and U.S. Patent Application Document 1 relate to mass production of dental restorations. Foreign Patent Document 1 relates to a three-dimensional shape generating method by powder lamination. Foreign Patent Document 2 relates to a method for lamination-molding functional material. Document 3 relates to a method and apparatus for stereoscopically color copying. Document 4 is a method for forming artificial bone. Non-Patent Literature Document 2 relates to fabrication of multicolor model by color RP machine. Non-Patent Literature Document 3 relates to the substance of the molecular structure by layered manufacturing (identified in the specification as Nonpatent Document 2: "Substantiation of molecular structure by lamination forming method). Their relevance is believed to be clear from the specification of this application. Accordingly, no further comment with regard to the disclosures of these documents is believed to be required.

Attached is a copy of the Search Report issued in the corresponding International application (Non-Patent Literature Document 4). Foreign Patent Documents 5 and 6 and Non-Patent Literature Document 1 were cited in said Search Report. It is believed that the relevancy of each document cited is clear from the Search Report. Accordingly, no further comment with regard to the disclosures of these documents is believed to be required.

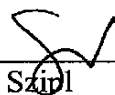
It is respectfully requested that the attached documents be considered and officially cited, and that a copy of Forms PTO/SB/08A and PTO/SB/08B, be initialed by the Examiner and returned to the undersigned to indicate that the documents have been considered.

It is believed that the present Information Disclosure Statement complies with the

requirements of 37 C.F.R. §§ 1.97-8, but should the filing of this paper necessitate a fee, the Director is hereby authorized to charge the necessary fee to Deposit Account No. 50-1281.

Respectfully submitted,

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number		
Filing Date		
First Named Inventor	Kenji YAMAZAWA	
Art Unit		
Examiner Name		
Attorney Docket Number	ASAIN0176	

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Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5204055		1993-04-20	Sachs et al.	
	2	5902441		1999-05-11	Bredt et al.	
	3	6375874	B1	2002-04-23	Russell et al.	
	4	6322728	B1	2001-11-27	Brodkin et al.	
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	1	20020064745	A1	2002-05-30	Schulman et al.	
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STATEMENT BY APPLICANT**  
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Application Number		
Filing Date		
First Named Inventor	Kenji YAMAZAWA	
Art Unit		
Examiner Name		
Attorney Docket Number	ASAIN0176	

1	09324023	JP		1997-12-16	Rikagaku Kenkyusho		<input checked="" type="checkbox"/>
2	2004042546	JP		2004-02-12	Inst of Physical & Chemical Res		<input checked="" type="checkbox"/>
3	2004063403	JP		2004-03-04	Inst of Physical & Chemical Res		<input checked="" type="checkbox"/>
4	2004202126	JP		2004-07-22	Next:KK et al.		<input checked="" type="checkbox"/>
5	2003070816	JP		2003-03-11	Pentax Corp		<input checked="" type="checkbox"/>
6	2003135583	JP		2003-05-13	Pentax Corp		<input checked="" type="checkbox"/>

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**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	YASUO UEDA et al., "Rapid Prototyping no Iryo Bunya eno Oyo", Hokkaido Journal of Dental Science, June 15, 2003, pp 3-13, Vol. 24, No. 1 (no translation available)	<input type="checkbox"/>
	2	YAMAZAWA et al., "Fabrication of multicolor model by color RP machine", 19th Rapid Prototyping Symposium, 2000, pp. 63-65. (no translation available)	<input type="checkbox"/>
	3	YAMAZAWA et al., "Making to substance of the Molecular Structure by Layered Manufacturing (identified in the specification as "Substantiation of molecular structure by lamination forming method")	<input checked="" type="checkbox"/>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		
	First Named Inventor	Kenji YAMAZAWA	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	ASAIN0176	

	4	International Search Report issued in corresponding application No. PCT/JP2004/010701 completed October 15, 2004 and mailed November 02, 2004	<input checked="" type="checkbox"/>
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If you wish to add additional non-patent literature document citation information please click the Add button

#### EXAMINER SIGNATURE

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

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Application Number		
Filing Date		
First Named Inventor	Kenji YAMAZAWA	
Art Unit		
Examiner Name		
Attorney Docket Number	ASAIN0176	

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☒ None

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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